

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

SCIENCE

EDITORIAL COMMITTEE: S. NEWCOMB, Mathematics; R. S. WOODWARD, Mechanics; E. C. PICKERING, Astronomy; T. C. MENDENHALL, Physics; R. H. THURSTON, Engineering; IRA REMSEN, Chemistry; J. LE CONTE, Geology; W. M. DAVIS, Physiography; HENRY F. OSBORN, Paleontology; W. K. BROOKS, C. HART MERRIAM, Zoology; S. H. SCUDDER, Entomology; C. E. BESSEY, N. L. BRITTON, Botany; C. S. MINOT, Embryology, Histology; H. P. BOWDITCH, Physiology; J. S. BILLINGS, Hygiene; J. MCKEEN CATTELL, Psychology; J. W. POWELL, Anthropology.

FRIDAY, APRIL 13, 1900.

CONTENTS:

The Present State of Progress of the New Reduction of Piazzi's Star Observations: Dr. Herman S.	57 4
Davis	578
Scientific Books:—	
Rayleigh's Scientific Papers: PROFESSOR CARL BARUS. Migula's System der Bakterien: PROFESSOR EDWIN O. JORDAN	580 586
Societies and Academies:—	
Section of Anthropology and Psychology: PRO- FESSOR CHAS. H. JUDD. Biological Society of Washington: F. A. LUCAS. Geological Society of Washington: DR. F. L. RANSOME, DAVID	
WHITE	587
Discussion and Correspondence:—	
'New Darwinism': PROFESSOR F. W. HUTTON. 'The Eskimo of Smith Sound': PROFESSOR O. T. MASON. A Chronological Index: C. L. F. The International Congress of Mechanics: PROFESSOR R. H. THURSTON.	588
Notes on Physics:—	
Liquid Air; Atmospheric Electricity: W. S. F.	590
Current Notes on Physiography:— Glacial Lakes in Western New York; The Pommeranian Coast-land; German Physiographic Terms; Lakes of the Böhmerwald: Professor	550
W. M. DAVIS	591
Current Notes on Meteorology: —	
Death of Mr. G. J. Symons; The Mistral; Ty-	
phoons of the Philippine Islands: R. DEC. WARD. Patents and the Industries: PROFESSOR R. H.	592
Thurston	593
The Brinton Memorial Chair in the University of	
Pennsylvania	594
Scientific Notes and News	
University and Educational News	600
· · · · · · · · · · · · · · · · · · ·	

MSS. intended for publication and books, etc., intended for review should be sent to the responsible editor, Professor, J. McKeen Cattell, Garrison-on-Hudson, N. Y.

THE GEOLOGICAL AND FAUNAL RELATIONS
OF EUROPE AND AMERICA DURING THE
TERTIARY PERIOD AND THE THEORY
OF THE SUCCESSIVE INVASIONS OF
AN AFRICAN FAUNA.*

Several years ago the discovery of some new types of Rhinoceroses in this country directed my attention afresh to the study of the Tertiary fauna of Europe as parallel with that of America. In the succession of European and American types it appeared that there were most interesting similarities between rhinoceroses as widely separated as the present regions of Colorado and Southern France, but upon attempting more than a general comparison I was confronted by a lack of definite time scale between the levels in which these animals occur. The available correlations by Cope, Filhol, Scott, Zittel and others proved too indefinite at certain points. This difficulty became so obstructive that a more exact correlation of European and American horizons appeared to be an essential basis not only for the phylogeny of the Rhinoceroses but for that of other types of mammals of Europe and North America.

STRATIGRAPHICAL CORRELATION.

In an address before the Academy last year the various steps which have been taken to secure such correlation were described. The work proves to be a very diffi-

*Address of retiring President, New York Academy of Sciences, February 26, 1900.